

ABSTRACT of the DISCLOSURE

Title:

A method of and a device for flatness detection

Applicant:

VAI CLECIM

Inventors:

Jean-Paul FAURE and Thierry MALARD

The invention relates to a method of and a device for detecting the flatness of a metal band product at high temperature, using a measuring roll (1) having a cylindrical external face (13) comprising an angular contact sector with the band and a free sector.

According to the invention, the roll (1) is cooled down forcibly by circulating a heat exchanging fluid along at least one portion of the free sector of the external face (13) of the roll (1) and one determines the parameters responsible for the cooling efficiency such as the opening angle (B) of cooling sector, the temperature and the circulation flow rate of the heat exchanging fluid, so that the external face (13) of the roll (1) is brought back, at each revolution, to a pre-set equilibrium temperature.

The invention applies especially to the hot rolling of ferrous and non-ferrous metals.

Figure 1